## CLAIMS

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- 1. An integrated flywheel operated battery and motor for employment in a flywheel battery electric vehicle comprising:
  - a) a horizontally disposed cylindrical housing having an inverted conical base and a removable disc-shaped cover;
  - b) a horizontally disposed flywheel disposed in said housing for rotation about a rotatable axle;
  - c) a circular battery located about the periphery of said flywheel;
  - d) said circular battery having a casing having an inner vertical wall and an outer vertical wall;
  - e) first electromagnets, said battery casing having a plurality of rotor windings, each being wrapped around a said first electromagnet and mounted at spaced intervals along said inner wall and said outer wall;
  - d) said cylindrical housing having an axially disposed bearing within said cover for receiving said rotatable axle;
  - e) said housing conical base defining an aperture through the center thereof through which said axle projects;
  - f) said housing having an outer cylindrical wall having an inner side;

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- g) second electromagnets, said housing inner side having a plurality of field windings, each being wrapped around a said second electromagnet and mounted and equally spaced around the circumference of said wall inner side;
- h) said housing cover having a depending cylindrical wall disposed coaxially immediately inside said battery casing wall and having a plurality of field coils mounted and equally spaced along an outer side of said depending wall;
- i) a plurality of electrical brush locations along said axle, each corresponding to an individual said rotor winding, brush means for conducting electricity from said computer to said brush locations, and means within said axle for conducting electricity from each of said plurality of brush locations to said individual rotor windings;
- j) a pair of primary electrical brush locations along said axle electrically connected to corresponding positive and negative poles of said battery, and brush means to conduct electricity from said primary brush locations to and from said computer;
- means for constant electrically connecting said individual field coils with said computer under charge conditions; and
- 1) means for selective intermittent electrical connection of said individual field coils with said computer under motor drive conditions ;

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whereby, when under a condition of load, said computer directs a constant flow of electricity from said battery to a selected number of said rotor windings, and an intermittent flow of electricity to said field windings to act as a drive motor, and whereby under a condition of charging said computer directs a constant flow of electricity to said rotor windings, and receives a constant flow of electricity from said field coils, which is conducted to said battery for charging under charge conditions.

The integrated flywheel battery and motor according to 2. claim 1, further including means connected with said computer for conducting electricity from a remote source to said battery for charging and for bringing said flywheel up to operating speed for starting the flywheel battery electric vehicle.